Obtaining Feature Licenses for Cisco IOS Software Features: Cisco Unified Border Element

Ordering Guide

For further information, questions and comments please contact ccbu-pricing@cisco.com

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April 2, 2008

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1. Cisco Unified Border Element

To use the Cisco® Unified Border Element (previously known as Multiservice IP-to-IP Gateway) and H.323 Gatekeeper features on Cisco IOS® Software, customers must purchase feature licenses. The Cisco Unified Border Element and H.323 Gatekeeper are primary components of a voice-over-IP (VoIP) and video-over-IP network design that allows control, management, and routing and helps ensure quality of service. This document describes the feature licenses available and the router platforms and software versions to which they apply.

1.1 Cisco IOS Software Licenses

The Cisco IOS Software license is commonly referred to as Cisco IOS Software. This type of license includes the right to use a particular Cisco IOS Software release and feature set on one router. For example, Cisco IOS Software Release 12.4(15)T3 “Enterprise Services” for the Cisco 3845 Integrated Services Router, ordered as part number S384ES-12418, corresponds to the software image called c3845-entservicesk9-mz.124-15.T3.bin.

The Cisco Unified Border Element has different kinds of features that are broadly classified under four categories:

- **A** Basic voice
- **B** Voice security
- **C** Gatekeeper
- **D** Lawful intercept

You need to select appropriate Cisco IOS Software depending on the features you need. Table 1 shows some examples of different Cisco IOS Software feature sets with Cisco Unified Border Element functionalities.

Table 1. Cisco IOS Software Feature Sets and Cisco Unified Border Element Functionalities

Platforms	Cisco IOS Software Feature Sets*	Cisco Unified Border Element Feature
Cisco 2800 and 3800 Series Integrated Services Routers	IP VOICE	A
	IP VOICE W/O CRYPTO	A
	ENTERPRISE SERVICES	A
	ENTERPRISE SERVICES W/O CRYPTO	A
	SP SERVICES	A
	ADVANCED IP SERVICES	AB
	ADVANCED ENTERPRISE SERVICES	AB
	INT VOICE/VIDEO, IPIP GW, TDMIP GW	AC
	INT VOICE/VIDEO, IPIPGW, TDMIP GW AES	ABC
	INT VOICE/VIDEO GK, IPIPGW, TDMIP GW AES, LI.	ABCD
Cisco AS5350XM Universal Gateway, and Cisco AS5400XM Universal Gateway	IP PLUS	A
	IP PLUS IPSEC 3DES	AB
	IP PLUS IPSEC 3DES LAWFUL INTERCEPT	ABD
	INT VOICE/VIDEO IPIPGW, TDMIP GW EPLUS	ABC
	INT VOICE/VIDEO IPIPGW, TDMIP GW LI	ABCD

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Platforms	Cisco IOS Software Feature Sets*	Cisco Unified Border Element Feature
Cisco 7200 Series Routers	ADVANCED ENTERPRISE SERVICES	ABC
	ADVANCED IP SERVICES W/LAWFUL INTERCEPT	ABCD

*IP Base, Enterprise Base, and Advanced Security do not have voice features.

1.2 Cisco IOS Software Feature Licenses

Another type of license, Cisco IOS Software feature license, is commonly referred to as a feature license. In some cases, additional value-added functions are provided in software images but the base Cisco IOS Software license does not cover them. Cisco offers the right to use these features through a feature license.

For example:

- To use the H.323 Gatekeeper feature on a Cisco 7301 Router, the H.323 Gatekeeper feature license, FL-GK-IPIP7301, is required.
- To use the Multiservice IP-to-IP Gateway feature on a Cisco 3745 Multiservice Access Router, the IP-to-IP Gateway feature license, FL-INTVVSRV-3745, is required.
- Beginning with Cisco IOS Software Release 12.3(7)T in March 2004, the H.323 Gatekeeper and Multiservice IP-to-IP Gateway (Cisco Unified Border Element) features can run concurrently on the same hardware platform. In this case, the H.323 Gatekeeper feature license, FL-GK-xxxx, provides the right to use both the H.323 Gatekeeper and the Multiservice IP-to-IP Gateway features.

Note: A feature license conveys the right to use a feature, but it cannot add a feature to a software release or software image that does not support it. For example, purchasing a Gatekeeper feature license for Cisco IOS Software Release 10.0 or for the IP release for the Cisco 3745 will not upgrade the software to support the Gatekeeper features. Choose a software release that supports all required features and then choose any necessary feature licenses.

The Cisco Unified Border Element provides the control and demarcation point at the enterprise network edge for H.323 and Session Initiation Protocol (SIP)-based voice and video services over IP. You could use this functionality to provide a secure boundary between independent administrative domains or simply as a proxy for enriched services within a single administrative domain. The Cisco Unified Border Element performs many of the same functions as a traditional time-division-multiplexing (TDM) based public switched telephone network (PSTN)-to-IP gateway, but it supports two IP call legs, as opposed to a TDM leg and an IP call leg.

For more information about the Cisco Unified Border Element, visit http://cisco.com/go/cube.

1.3 Cisco Unified Border Element License Types

Two types of Cisco Unified Border Element licenses are available. Either one can be used depending on your need.

1.3.1 Pay-as-You-Grow License

This capacity-based license scheme is designed to allow a low entry point for customers with limited IP trunking needs initially. More licenses can be added later in step with customer needs, thus offering pay-as-you-grow benefits. It comes as bundle of 25 (FL-CUBE-25) or 100 (FL-CUBE-100) sessions. FL-CUBE-25 will give you 25 simultaneous call sessions. This license is available

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only on Cisco 28xx and 38xx platforms.

1.3.2 Flat License

This licensing scheme allows the maximum number of concurrent sessions supported by the platform chosen (example: FL-INTVVSRV-3845). This license is available only on “INT VOICE/VIDEO, IPIP GW, TDMIP GW” images. Examples:

- INT VOICE/VIDEO, IPIP GW, TDMIP GW
- INT VOICE/VIDEO, IPIPGW, TDMIP GW AES
- INT VOICE/VIDEO GK, IPIPGW, TDMIP GW AES, LI.

Table 2 shows the choices of Cisco Unified Border Element license for different platforms.

Table 2. Cisco Unified Border Element License Choices

Platform	License SKU Choices	License Type
Cisco 2800 Series Integrated Services Routers	FL-CUBE-25 FL-CUBE-100 FL-INTVVSRV-2801 FL-INTVVSRV-2811 FL-INTVVSRV-2821 FL-INTVVSRV-2851	Pay-as-You-Grow Pay-as-You-Grow Flat Flat Flat Flat
Cisco 3800 Series Integrated Services Routers	FL-CUBE-25 FL-CUBE-100 FL-INTVVSRV-3825 FL-INTVVSRV-3845	Pay-as-You-Grow Pay-as-You-Grow Flat Flat
Cisco 7200 Series and Cisco 7201 Router	FL-GK-IPIP7200	Flat
Cisco 7301 Router	FL-GK-IPIP7301	Flat
Cisco AS5350XM Universal Gateway and Cisco AS5400XM Universal Gateway	FL-INTVVSRV-5X	Flat

Table 3 displays a list of licenses created for the Cisco Unified Border Element. Use these feature licenses when you purchase the Cisco Unified Border Element separately. When you configure a system, the Cisco Unified Border Element feature license will be presented when you select any of the Cisco IOS Software images containing the Cisco Unified Border Element.

The Cisco IOS Software images listed in Table 3 do not support voice gateway interfaces to connect to circuit switched/TDM devices (for example, FXS, FXO, T1, E1, and so on). Use the Cisco IOS Software Enterprise Services image to run TDM-to-IP voice gateway plus Cisco Unified Border Element features concurrently.

Table 3. Cisco Unified Border Element Feature Licenses and Cisco IOS Software Images

Product Number*	Description
FL-CUBE-25 (=)	Cisco Unified Border Element Feature License—25 Sessions Only available on Cisco 28xx and 38xx Integrated Services Routers
FL-CUBE-100 (=)	Cisco Unified Border Element Feature License—100 Sessions Only available on Cisco 28xx and 38xx Integrated Services Routers
FL-INTVVSRV-2801 (=)	Cisco 2801 Integrated Voice/Video License: Gatekeeper IPIP GW
FL-INTVVSRV-2811 (=)	Cisco 2811 Integrated Voice/Video License: Gatekeeper IPIP GW
FL-INTVVSRV-2821 (=)	Cisco 2821 Integrated Voice/Video License: Gatekeeper IPIP GW
FL-INTVVSRV-2851 (=)	Cisco 2851 Integrated Voice/Video License: Gatekeeper IPIP GW
FL-INTVVSRV-3825 (=)	Cisco 3825 Integrated Voice/Video License: Gatekeeper IPIP GW

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Product Number*	Description
FL-INTVVSRV-3845 (=)	Cisco 3845 Integrated Voice/Video License: Gatekeeper IPIP GW
FL-GK-IPIP7200 (=)	Cisco 7200 IP-to-IP Gateway
FL-GK-IPIP7301 (=)	Cisco 7301 IP-to-IP Gateway
FL-INTVVSRV-5X (=)**	AS5000XM Integrated Voice/Video License: Gatekeeper IPIP GW

* An '=' (equal sign) after a product number in Table 3 indicates a spare, which is orderable separately without a complete system purchase. Spare product numbers are typically used for system upgrades.
** For all Gatekeeper licenses ordered as an upgrade feature, the user will receive a PAK, once registered against the device (SN and PID), the license will be generated.

1.3.3 Ordering CUBE as Bundle

A select number of Cisco Unified Border Element Bundles are available preconfigured with a Cisco platform, Voice Security Feature License, memory, Cisco IOS Software feature set, and DSP resources to support IP telephony. You can choose from bundles those are available in different platforms (Table 4).

Table 4. Cisco Integrated Services Router Bundles with Cisco Unified Border Element Feature License and Voice Security Feature License*

Product Number	Descriptions
C2801-VSEC-CUBE/K9	Cisco 2801 VSEC Bundle with Cisco IOS 'INT VOICE/VIDEO, IPIP GW, TDMIP GW AES' Image, PVDM2-8, FL-CUBE (25 sessions), 64 MB flash/256 MB DRAM
C2811-VSEC-CUBE/K9	Cisco 2811 VSEC Bundle with Cisco IOS 'INT VOICE/VIDEO, IPIP GW, TDMIP GW AES' Image, PVDM2-16, FL-CUBE (75 sessions), 64 MB flash/256 MB DRAM
C2821-VSEC-CUBE/K9	Cisco 2821 VSEC Bundle with Cisco IOS 'INT VOICE/VIDEO, IPIP GW, TDMIP GW AES' Image, PVDM2-32, FL-CUBE (100 sessions), 64 MB flash/256 MB DRAM
C2851-VSEC-CUBE/K9	Cisco 2851 VSEC Bundle with Cisco IOS 'INT VOICE/VIDEO, IPIP GW, TDMIP GW AES' Image, PVDM2-32, FL-CUBE (125 sessions), 64 MB flash/256 MB DRAM
C3825-VSEC-CUBE/K9	Cisco 3825 VSEC Bundle with Cisco IOS 'INT VOICE/VIDEO, IPIP GW, TDMIP GW AES' Image, PVDM2-64, FL-CUBE (300 sessions), 128 MB flash/512 MB DRAM
C3845-VSEC-CUBE/K9	Cisco 3845 VSEC Bundle with Cisco IOS 'INT VOICE/VIDEO, IPIP GW, TDMIP GW AES' Image, PVDM2-64, FL-CUBE (400 sessions), 128 MB flash/512 MB DRAM

* These bundles are in the process of shipping out.

1.4 For More Information

To obtain current information about prices for individual product numbers, refer to the Cisco price list. For more information about the Cisco Unified Border Element, visit: http://cisco.com/go/cube

1.5 Marketing Contacts

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Printed in USA C07-462222-00 04/08